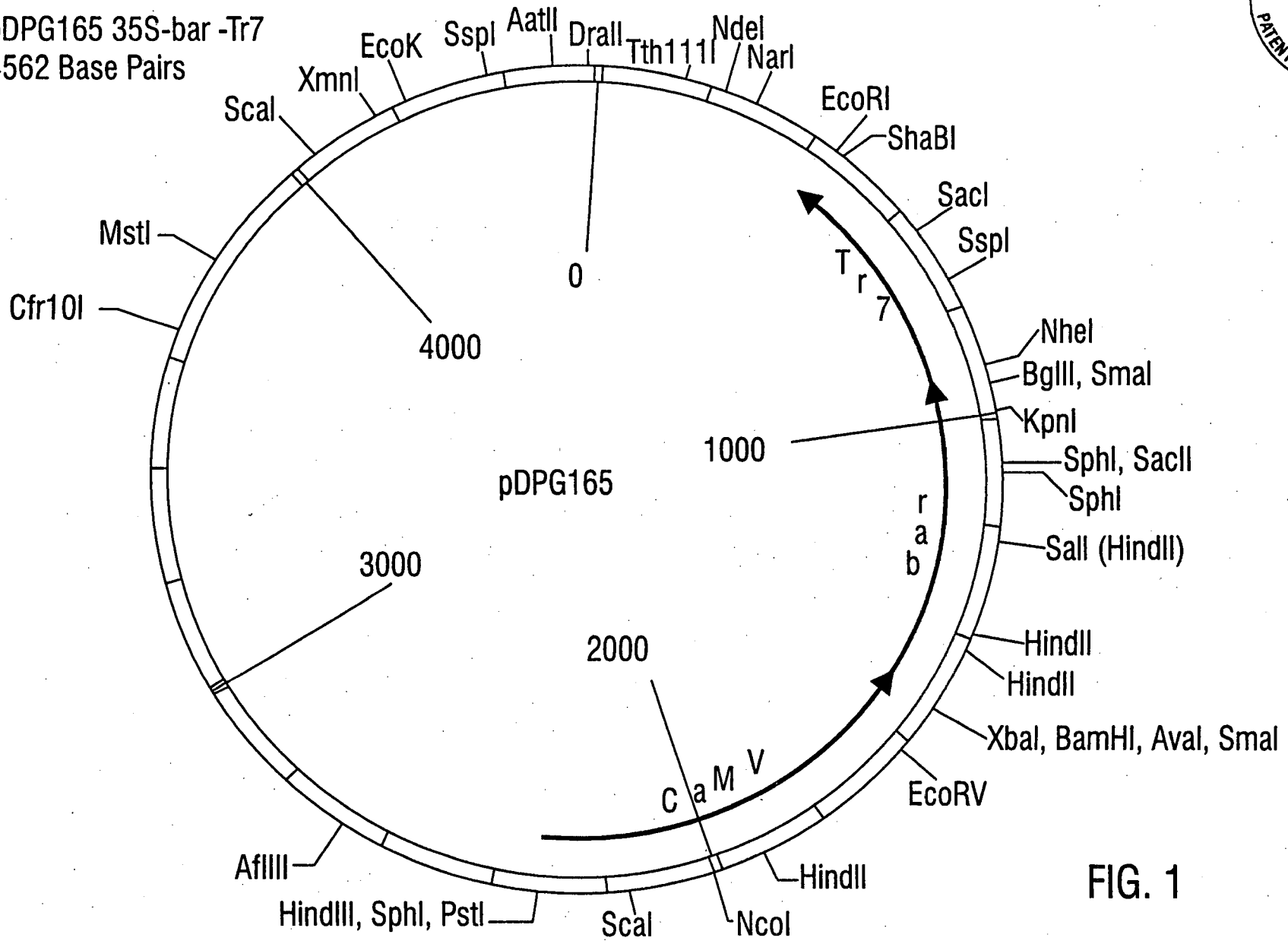


FIG. 1

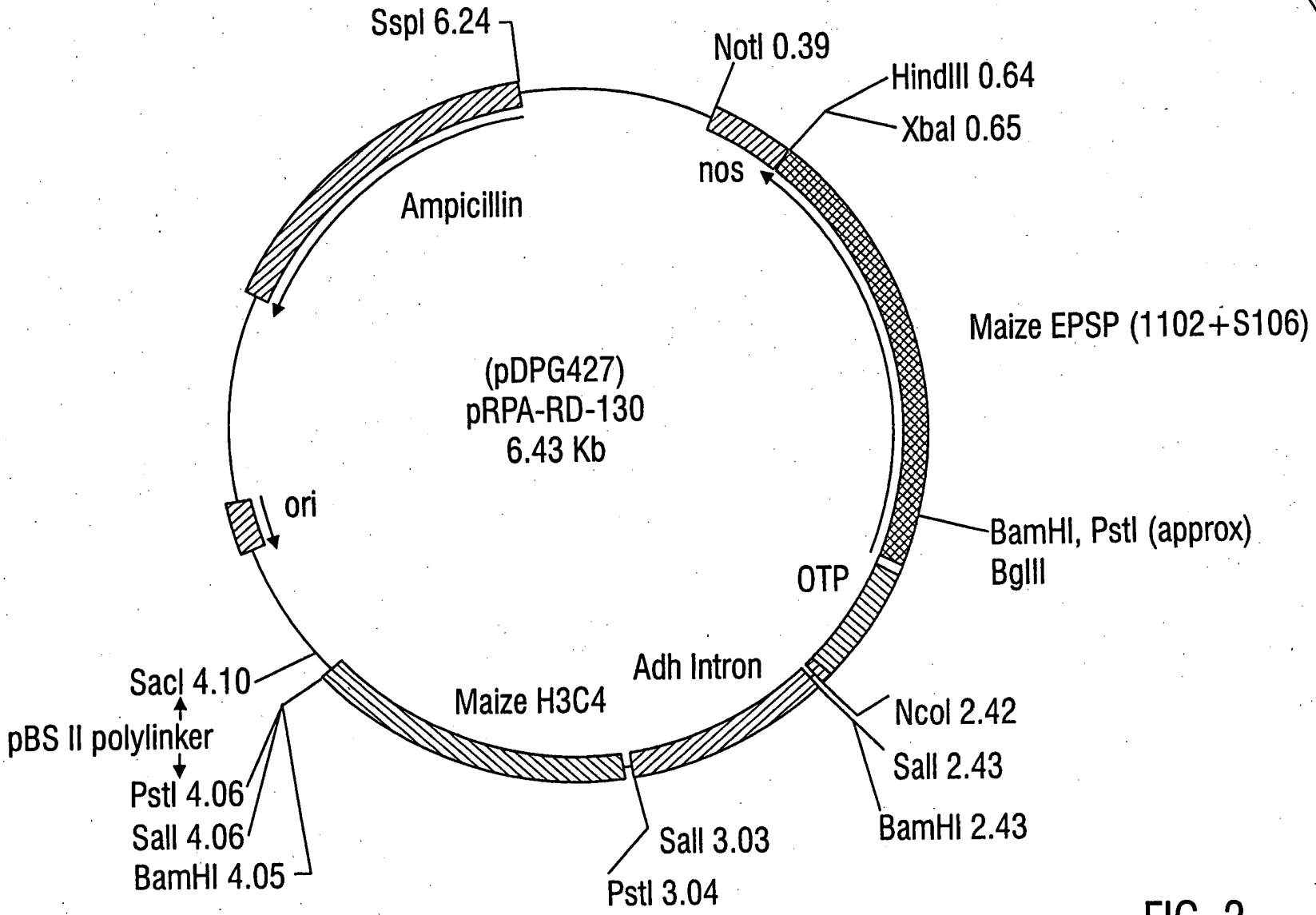


FIG. 2

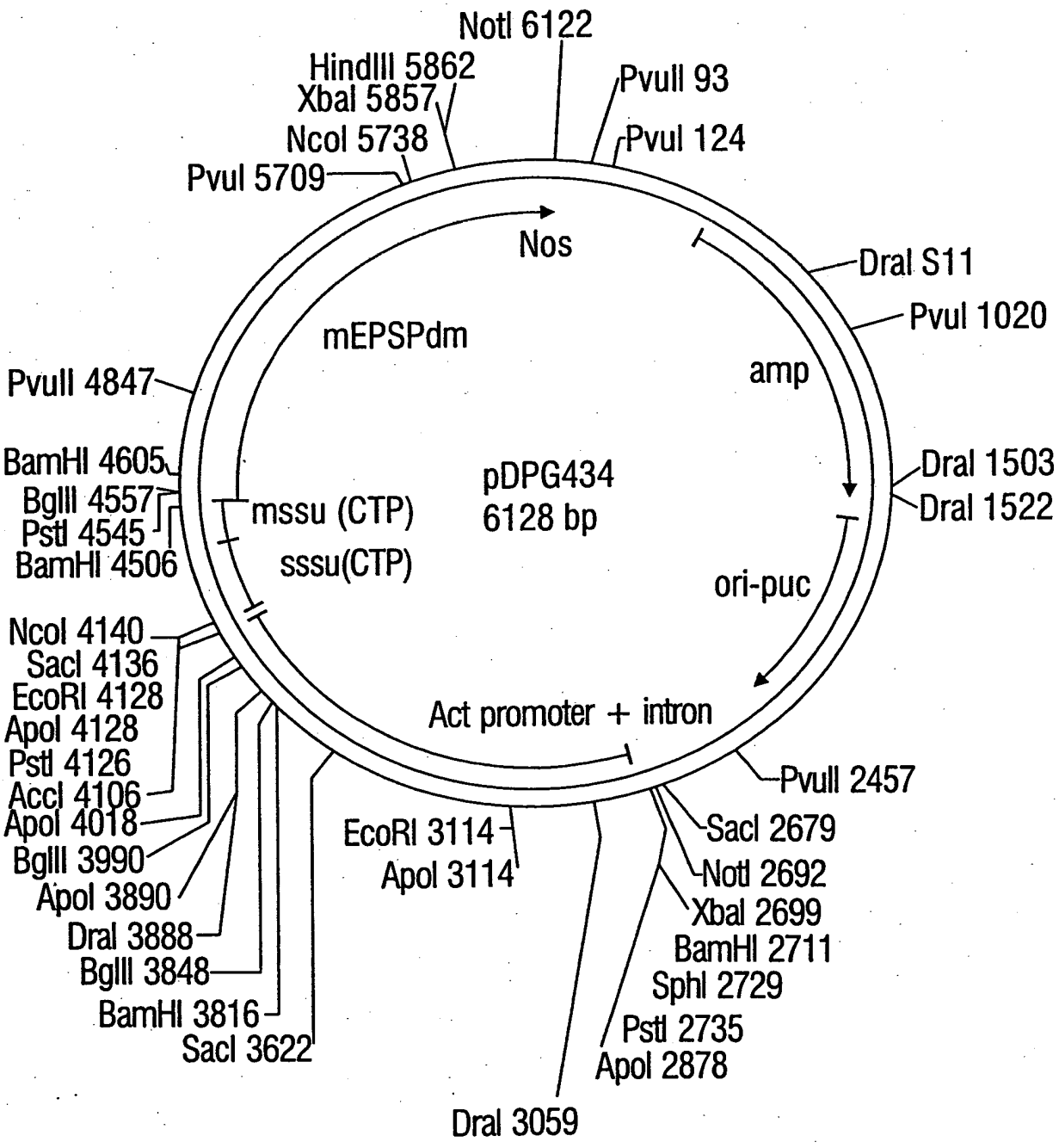
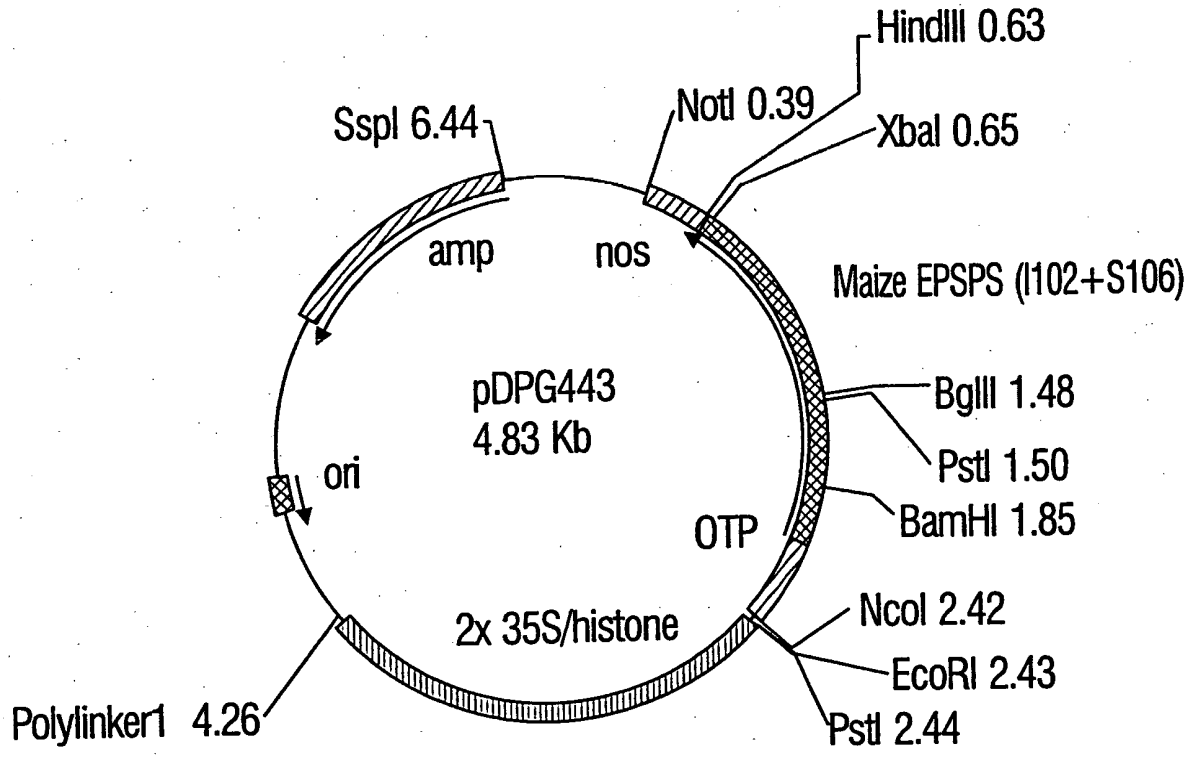


FIG. 3



Polylinker1: 4.26/SacI.BstXI.SacII.XmaIII.NotI.XbaI.SpeI.BamHI.

FIG. 4

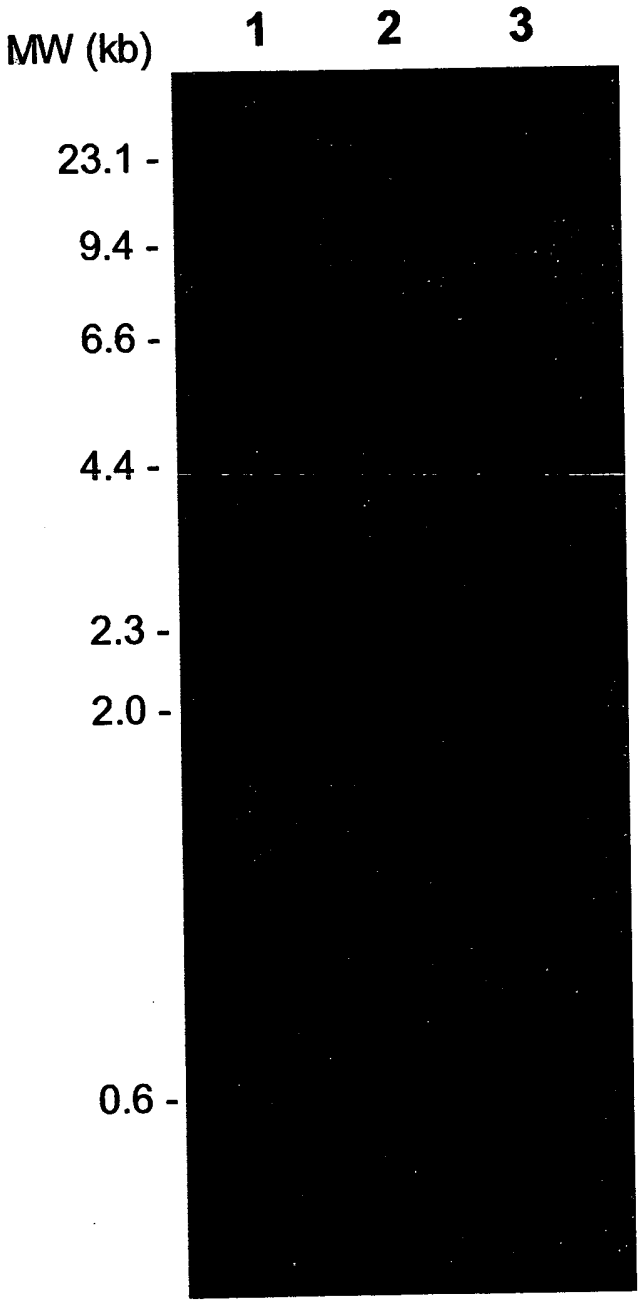


FIG.5A

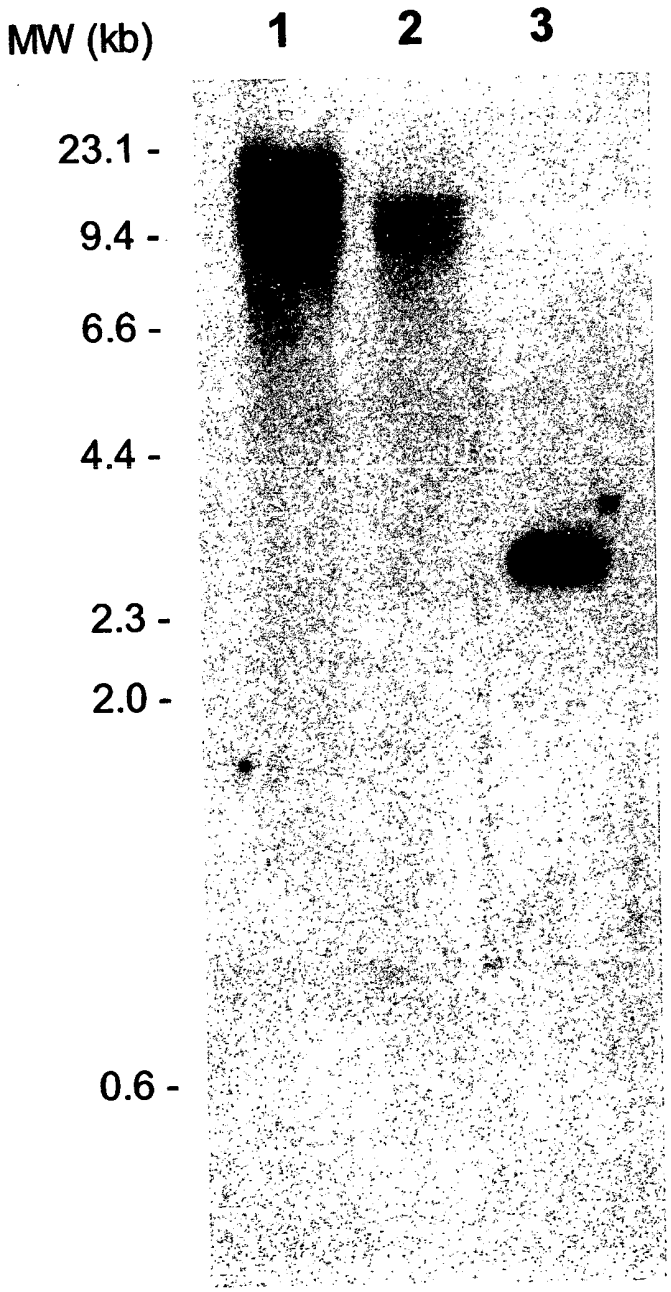


FIG.5B

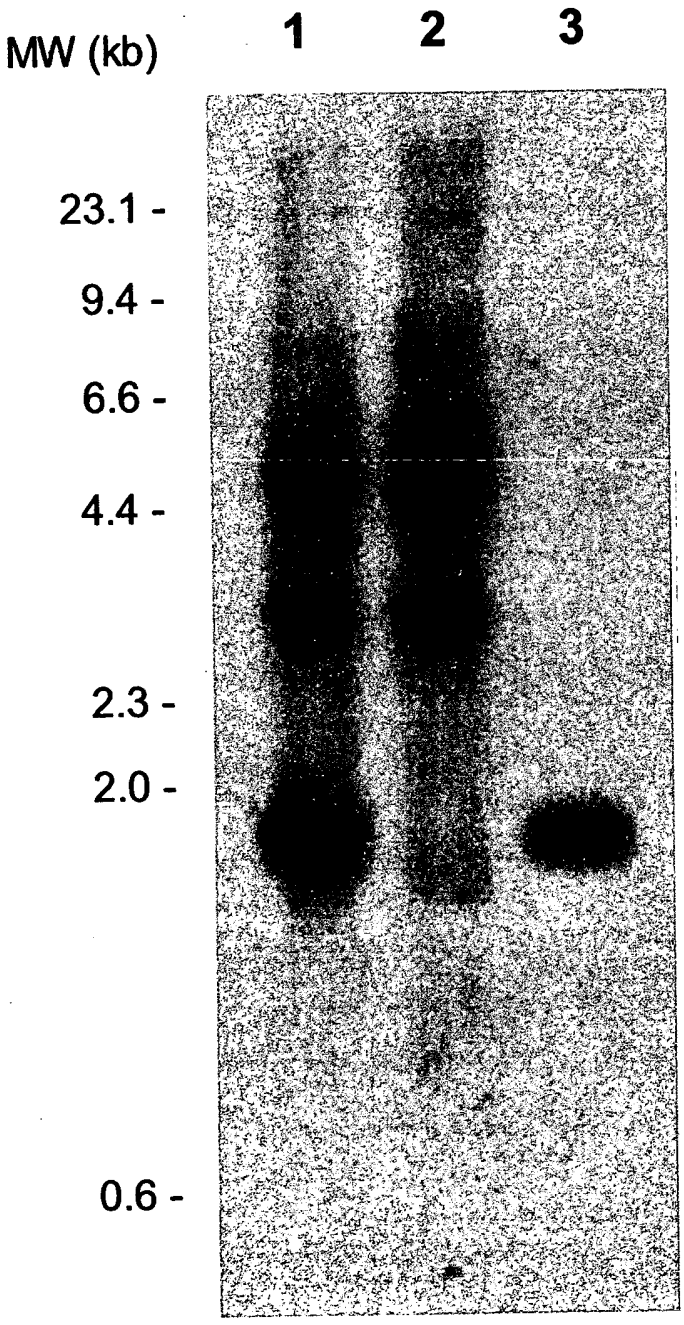


FIG.6

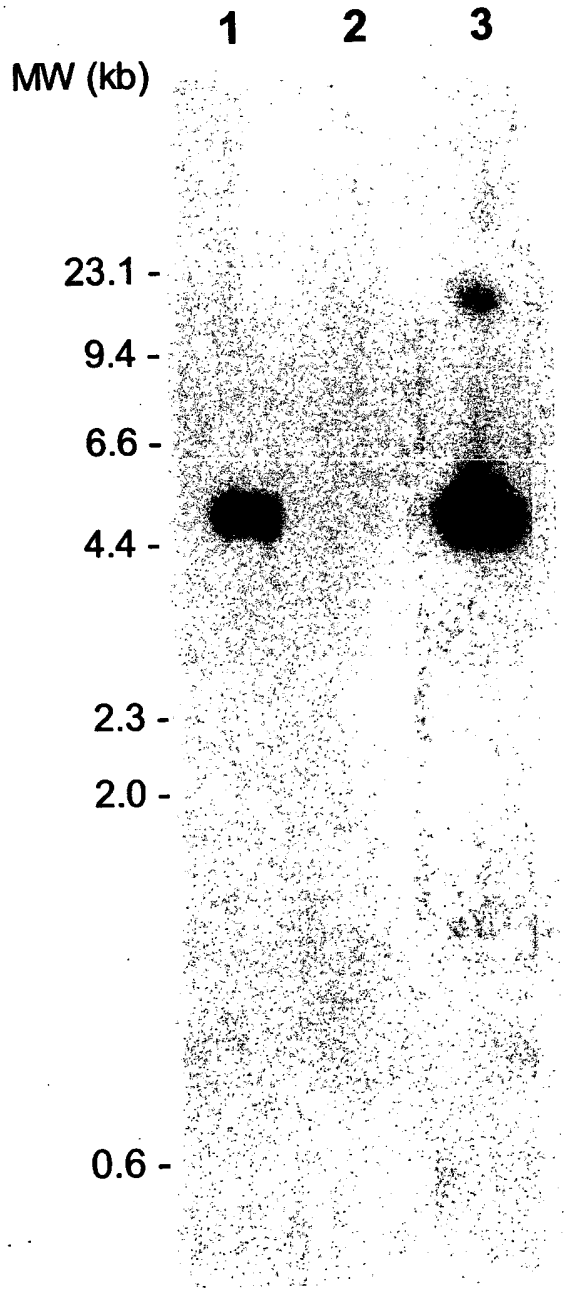


FIG. 7

HYBRID	EVENT	MEAN ELH 10 DAT V4 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	104.1	102.4	1.7	1	102.3	1.8	1	None
	FI117	100.1	97.7	2.3	2	97.7	2.4	2	None
	GJ11	105.0	102.4	2.6	3	98.6	6.5	3	None
	GG25	105.5	99.4	6.2	4	97.3	8.3	4	None
DK626	GA21	98.8	97.1	1.8	3	97.9	1.0	1	None
	FI117	96.4	91.3	5.1	4	92.7	3.7	3	None
	GJ11	96.0	96.8	-0.8	1	94.0	2.0	2	None
	GG25	99.5	97.8	1.6	2	93.1	6.4	4	None

FIG. 8A

HYBRID	EVENT	MEAN ELH 10 DAT V8 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	142.7	139.6	3.1	3	139.2	3.5	2	None
	FI117	143.4	139.5	3.9	4	139.1	4.3	3	None
	GG25	141.4	139.8	1.6	2	136.5	5.0	4	Yes
	GJ11	139.3	139.3	0.0	1	137.3	2.0	1	Yes
DK626	GA21	134.8	139.2	-4.4	1	134.0	0.8	1	None
	FI117	135.4	134.2	1.3	4	132.1	3.3	4	None
	GJ11	135.7	137.7	-2.0	2	133.1	2.6	3	Yes
	GG25	135.5	136.6	-1.0	3	134.0	1.6	2	Yes

FIG. 8B

LEVEL 1		LEVEL 2		DIFFERENCE	
HYBRID	RU*@ TIMING	HYBRID	RU*@TIMING	(LEV. 1 - LEV.2)	Prob>T
DK580	0X	DK580 FI117	0X	-16.60	0.0339
DK580	0X	DK580 FI117	4X@V4	11.33	0.1468
DK580 FI117	0X	DK580 FI117	4X@V4	27.97	0.0004
DK580	0X	DK580 GA21	0X	3.67	0.6378
DK580	0X	DK580 GA21	4X@V4	-5.35	0.4923
DK580 GA21	0X	DK580 GG21	4X@V4	-9.02	0.2478
DK580	0X	DK580 GG25	0X	-4.13	0.5957
DK580	0X	DK580 GG25	4X@V4	-3.50	0.6531
DK580 GG25	0X	DK580 GG25	4X@V4	0.63	0.9352
DK580	0X	DK580 GJ11	0X	-9.43	0.2267
DK580	0X	DK580 GJ11	4X@V4	-6.05	0.4376
DK580 GJ11	0X	DK580 GJ11	4X@V4	3.38	0.6640

FIG.9A

LEVEL 1		LEVEL 2		DIFFERENCE	Prob>T
HYBRID	RU*@ TIMING	HYBRID	RU*@TIMING	(LEV. 1 - LEV.2)	
DK626	0X	DK626 FI117	0X	-11.10	0.1559
DK626	0X	DK626 FI117	4X@V8	5.12	0.5113
DK626 FI117	0X	DK626 FI117	4X@V8	16.20	0.0388
DK626	0X	DK626 GA21	0X	-2.58	0.7401
DK626	0X	DK626 GA21	4X@V8	-9.63	0.2171
DK626 GA21	0X	DK626 GG21	4X@V8	-7.05	0.3658
DK626	0X	DK626 GG25	0X	-6.93	0.3738
DK626	0X	DK626 GG25	4X@V8	23.97	0.0024
DK626 GG25	0X	DK626 GG25	4X@V8	30.90	0.0001
DK626	0X	DK626 GJ11	0X	1.70	0.8272
DK626	0X	DK626 GJ11	4X@V8	27.62	0.0005
DK626 GJ11	0X	DK626 GJ11	4X@V8	25.92	0.0011

FIG.9B

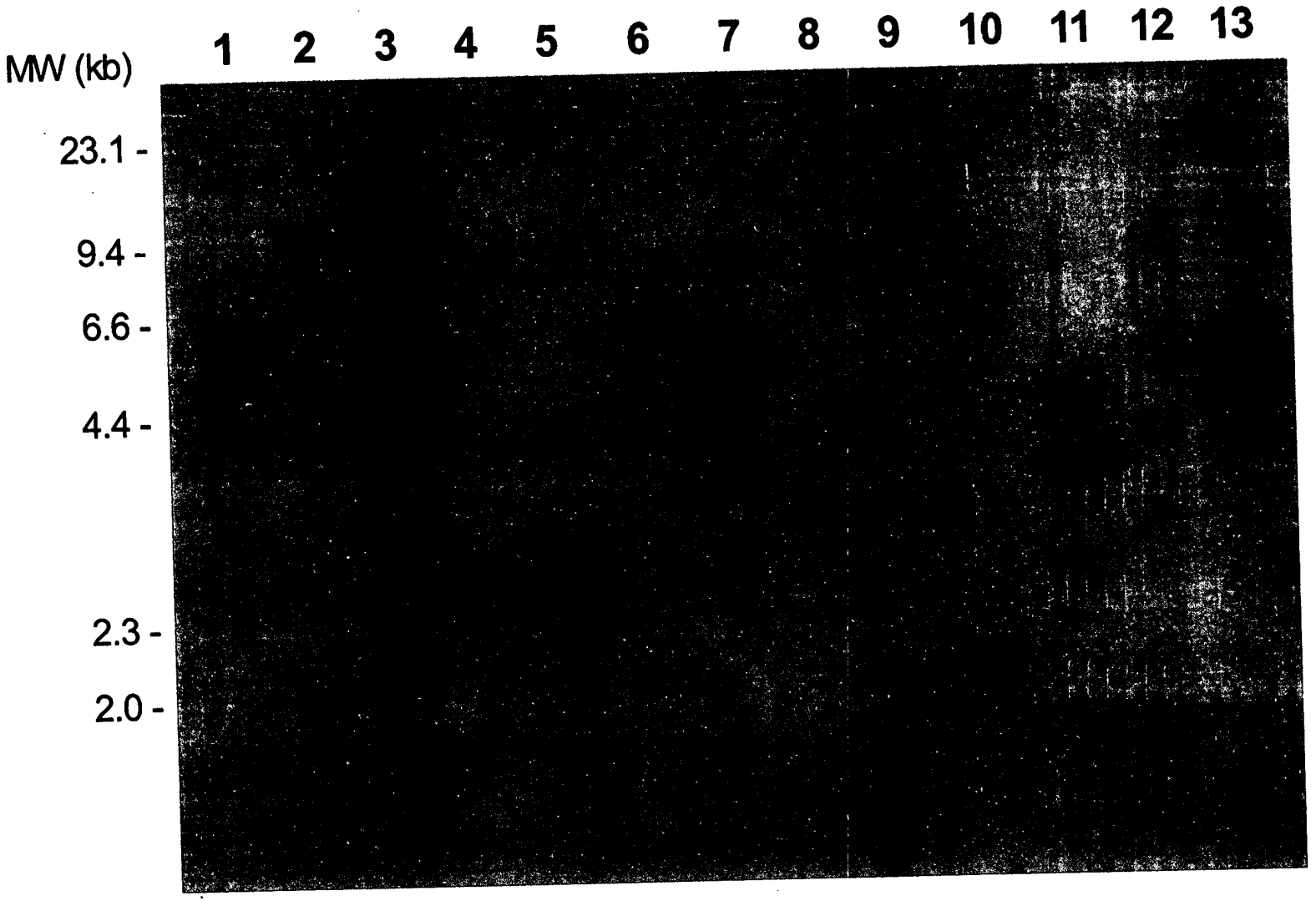


FIG.10

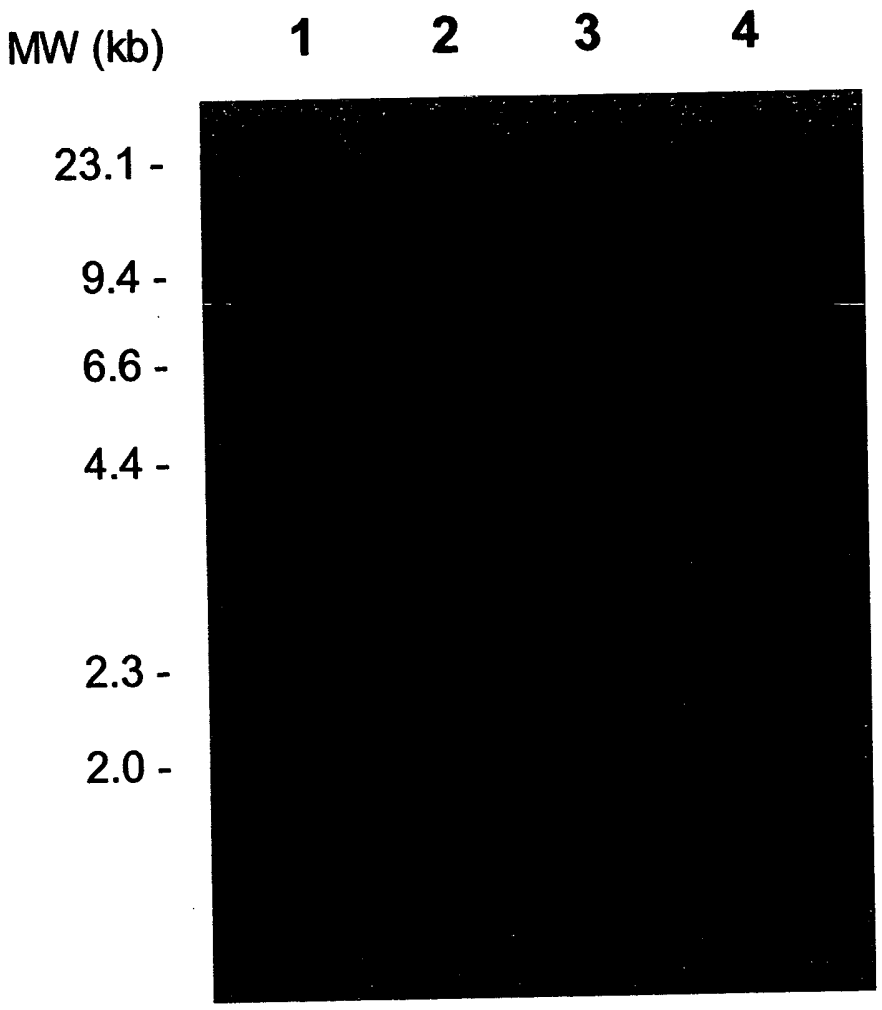


FIG.11A

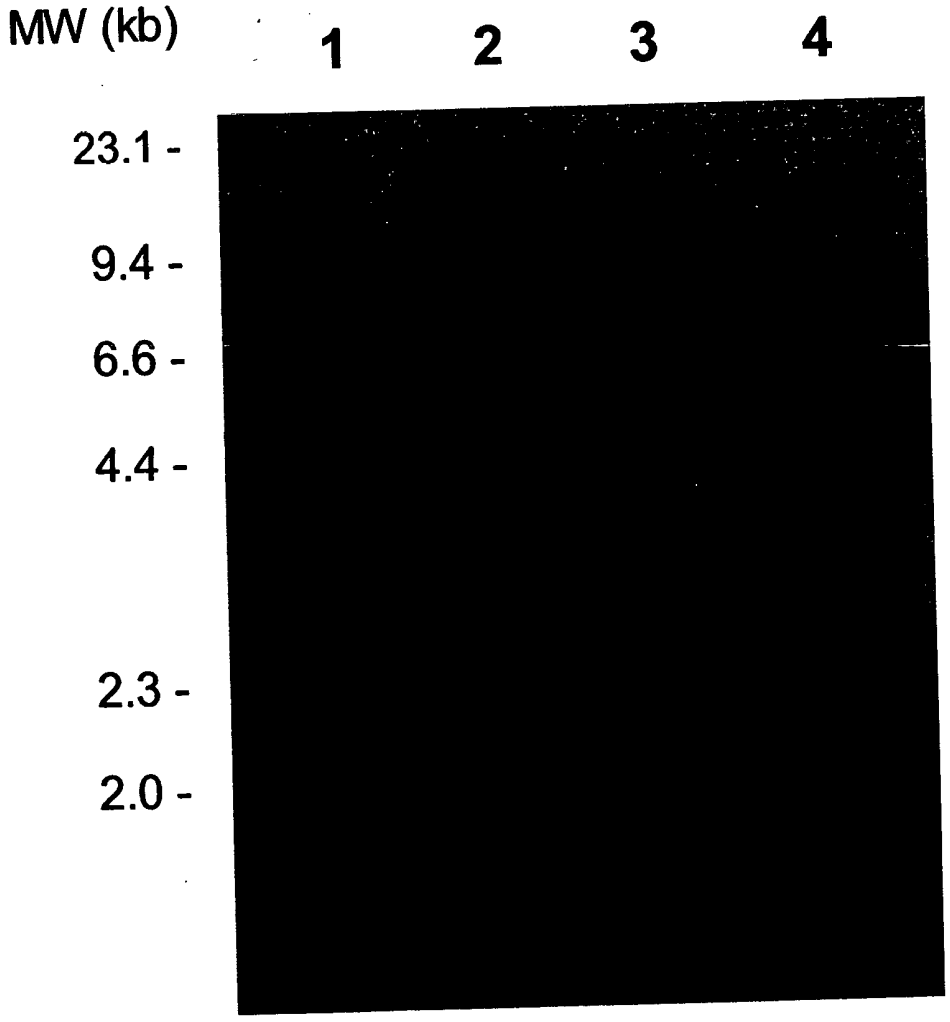


FIG.11B

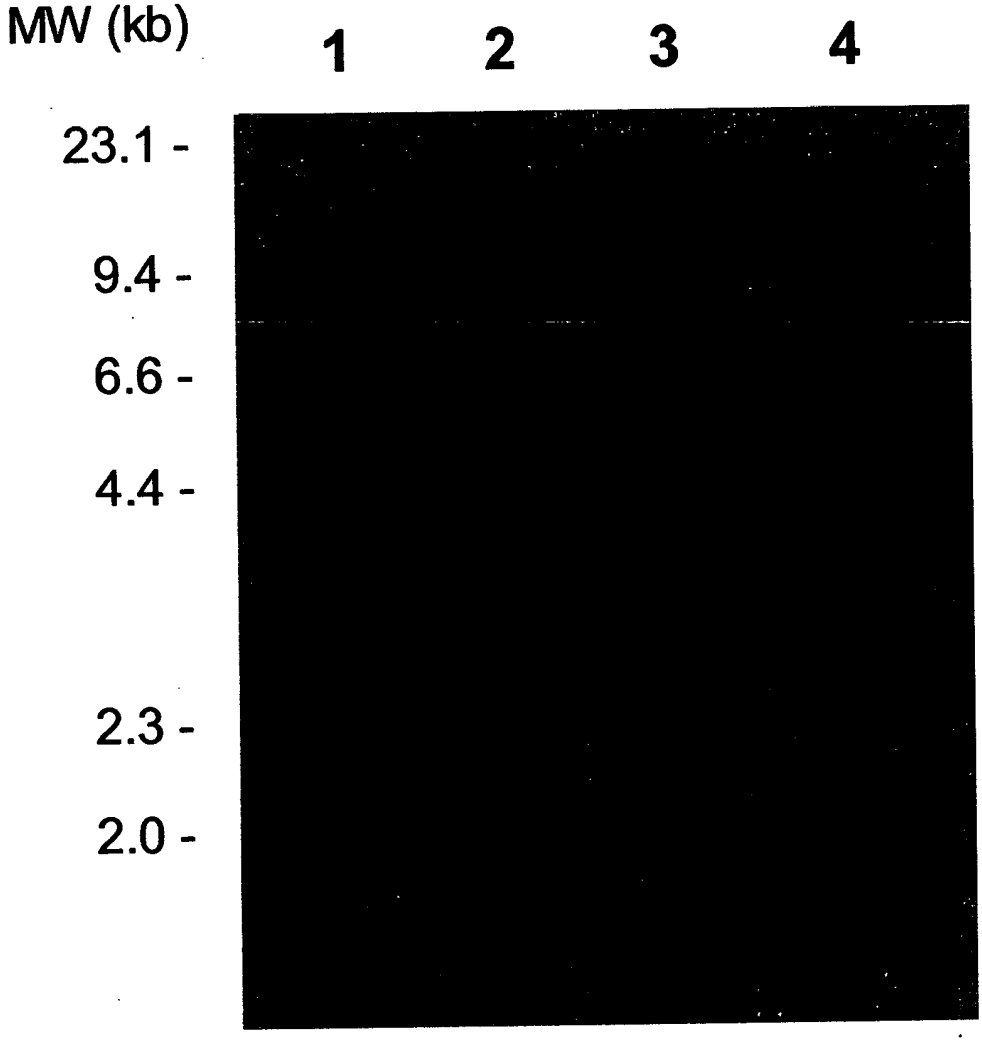


FIG.11C

1 MASISSSVAT VSRTAPAQAN MVAPFTGLKS NAAFPTTKKA NDFSTLPSNG

51 GGRVQCMQVW PAYGNKKFET LSYLPPLSMA PTVMMASSAT AVAPFQGLKS

101 TASLPVARRS SRSLGNVSNG GRIRCMAGAE EIVLQPIKEI SGTVKLPGSK

151 SLSNRILLIA ALSEGTTVVD NLLNSEDVHY MLGALRTLGL SVEADKAAKR

201 AVVVGCGGKF PVEDAKEEVQ LFLGNAGIAM RSLTAAVTAA GGNATYVLDG

251 VPRMRERPIG DLVVGLKQLG ADVDCFLGTD CPPVRVNGIG GLPGGKVKLS

301 GSISSQYLSA LLMAAPLALG DVEIEIIDKL ISIPYVEMTL RLMERFGVKA

351 EHSDSWDRFY IKGGQKYKSP KNAYVEGDAS SASYFLAGAA ITGGTVTVEG

401 CGTTSLQGDV KFAEVLEMMG AKVTWTETSV TVTGPPREPF GRKHLKAIDV

451 NMNKMPDVAM TLAVVALFAD GPTAIRDVAS WRVKETERMV AIRTELTKLG

501 ASVEEGPDYC IITPPEKLNV TAIDTYDDHR MAMAFSLAAC AEVPVTIRDP

551 GCTRKTFPDY FDVLSTFVKN

FIG. 12

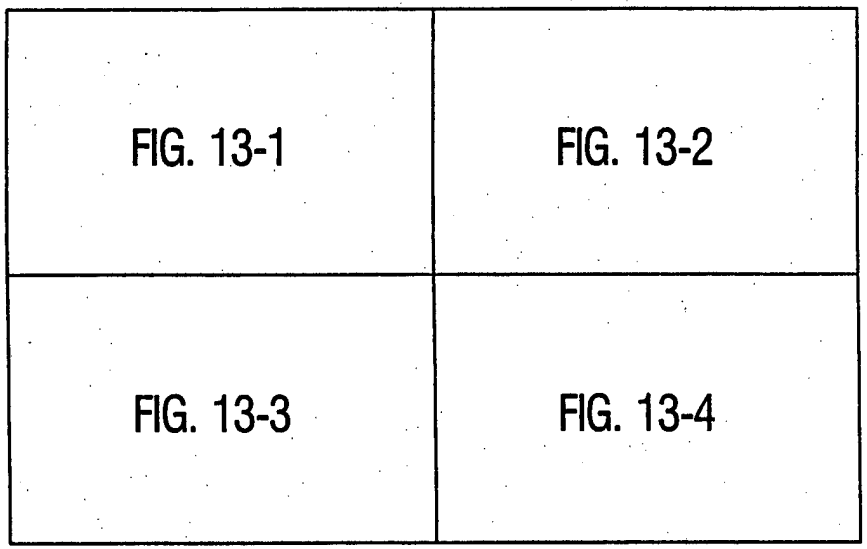


FIG. 13

963019 Test Map Example

REP	ROW	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8
3	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
3	4	GA21	GA21	GA21	GA21		GA21	GJ11	GJ11
3	4	T-4X@V4	T-4X@V8	T-1X@V8	T-1X@V4	N-OX	T-OX	T-4X@V4	T-1X@V8
3	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
3	3	FI117	FI117		FI117	FI117	FI117	GA21	GA21
3	3	T-1X@V4	T-1X@V8	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V8	T-4X@V4
3	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
3	2	GG25	GG25	GG25	GG25		GG25	GG25	GG25
3	2	T-1X@V8	T-4X@V8	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V4	T-4X@V8
3	1	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626
3	1		GJ11	GJ11	GJ11	GJ11	GJ11	FI117	FI117
3	1	N-OX	T-4X@V8	T-1X@V4	T-4X@V4	T-OX	T-1X@V8	T-4X@V8	T-OX
2	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
2	4	GJ11	GJ11		GJ11	GJ11	GJ11	GJ11	GJ11
2	4	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V8	T-4X@V8	T-1X@V8	T-1X@V4
2	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
2	3	GG21	GA21	GA21	GA21		GA21		GG25
2	3	T-4X@V8	T-1X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	N-OX	T-OX
2	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
2	2	GG25		GG25	GG25	GG25	GG25	FI117	FI117
2	2	T-1X@V8	N-OX	T-4X@V4	T-1X@V4	T-OX	T-4X@V8	T-4X@V4	T-OX
2	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
2	1	FI117		FI117	FI117	FI117	FI117	GA21	
2	1	T-4X@V8	N-OX	T-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V4	N-OX

FIG. 13-1

COL9	COL10	COL11	COL12
DK626 N-OX	DK626 GJ11 T-4X@V8	DK626 GJ11 T-OX	DK626 GJ11 T-1X@V4
DK626 N-OX	DK626 GA21 T-OX	DK626 GA21 T-1X@V4	DK626 GA21 T-4X@V8
DK626 GG25 T-OX	DK626 GG25 T-1X@V8	DK626 GG25 T-4X@V4	DK626 N-OX
DK626 FI117 T-1X@V8	DK626 FI117 T-4X@V4	DK626 N-OX	DK626 FI117 T-1X@V4
DK626 GJ11 T-4X@V8	DK626 GJ11 T-4X@V4	DK626 N-OX	DK626 GJ11 T-OX
DK626 GG25 T-4X@V8	DK626 GG25 T-1X@V8	DK626 GG25 T-1X@V4	DK626 GG25 T-4X@V4
DK626 FI117 T-1X@V4	DK626 FI117 T-4X@V8	DK626 FI117 T-1X@V8	DK626 N-OX
DK626 GA21 T-4X@V8	DK626 GA21 T-1X@V8	DK626 GA21 T-OX	DK626 GA21 T-1X@V4

FIG. 13-2

1	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	4	GA21		GA21	GA21	GA21	GA21	GA21	GA21
1	4	T-4X@V8	N-OX	T-1X@V8	T-4X@V4	T-1X@V4	T-OX	T-4X@V4	T-4X@V8
1	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	3	FI117	FI117		FI117	FI117	FI117	FI117	FI117
1	3	T-4X@V4	T-1X@V4	N-OX	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	T-4X@V8
1	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	2	GJ11	GJ11	GJ11		GJ11	GJ11	GG25	GG25
1	2	T-4X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V8
1	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	1		GG25	GG25	GG25	GG25	GG25	GJ11	GJ11
1	1	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V4	T-1X@V8	T-4X@V4	T-1X@V8

FIG. 13-3

DK626 GA21 T-OX	DK626 GA21 T-1X@V4	DK626 GA21 T-1X@V8	DK626 N-OX
DK626 FI117 T-4X@V4	DK626 N-OX	DK626 FI117 T-1X@V8	DK626 FI117 T-OX
DK626 GG25 T-OX	DK626 N-OX	DK626 GG25 T-1X@V8	DK626 GG25 T-1X@V4
DK626 GJ11 T-OX	DK626 GJ11 T04X@V8	DK626 GJ11 T01X@V4	DK626 N-OX

FIG. 13-4

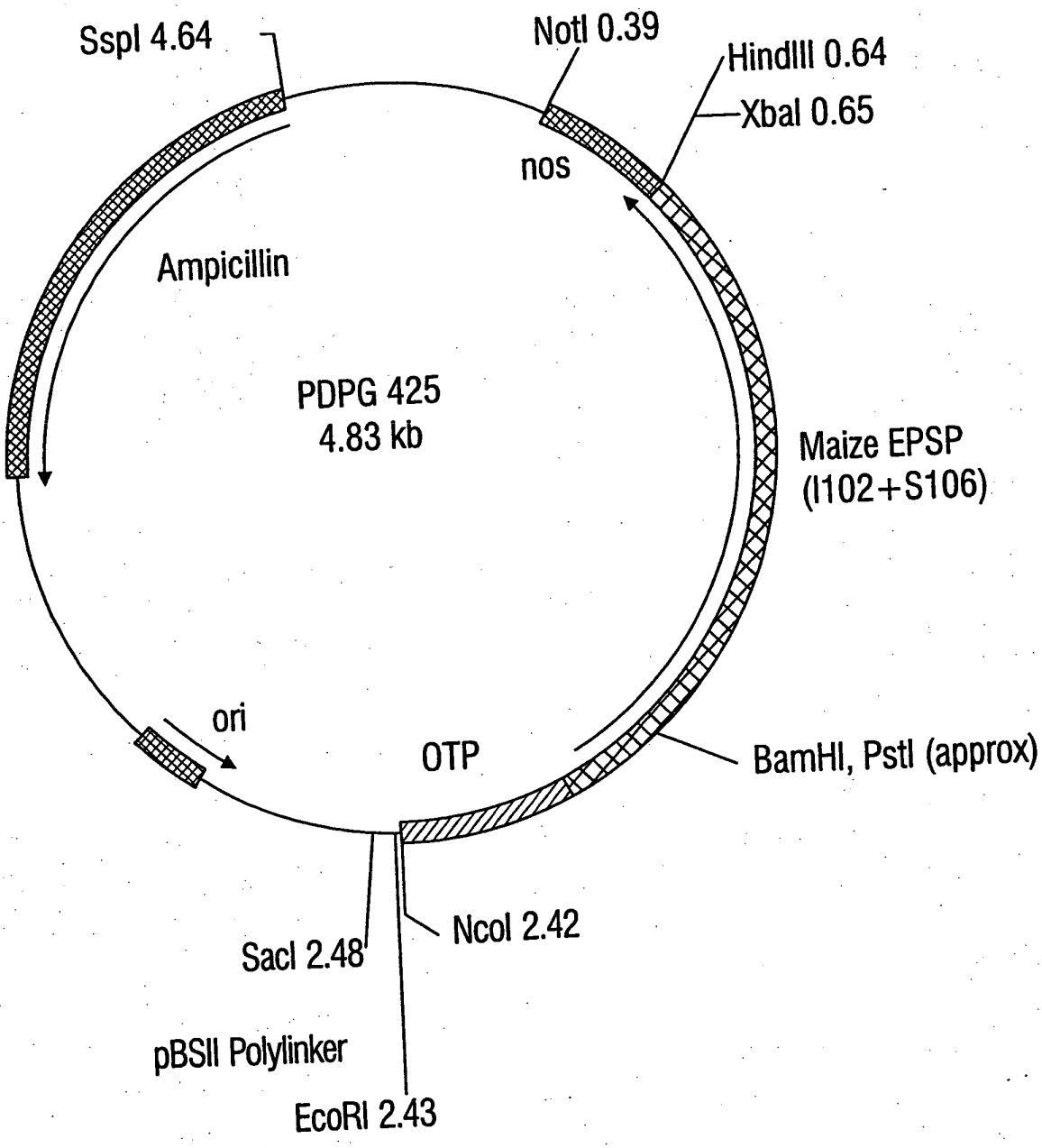


FIG. 14

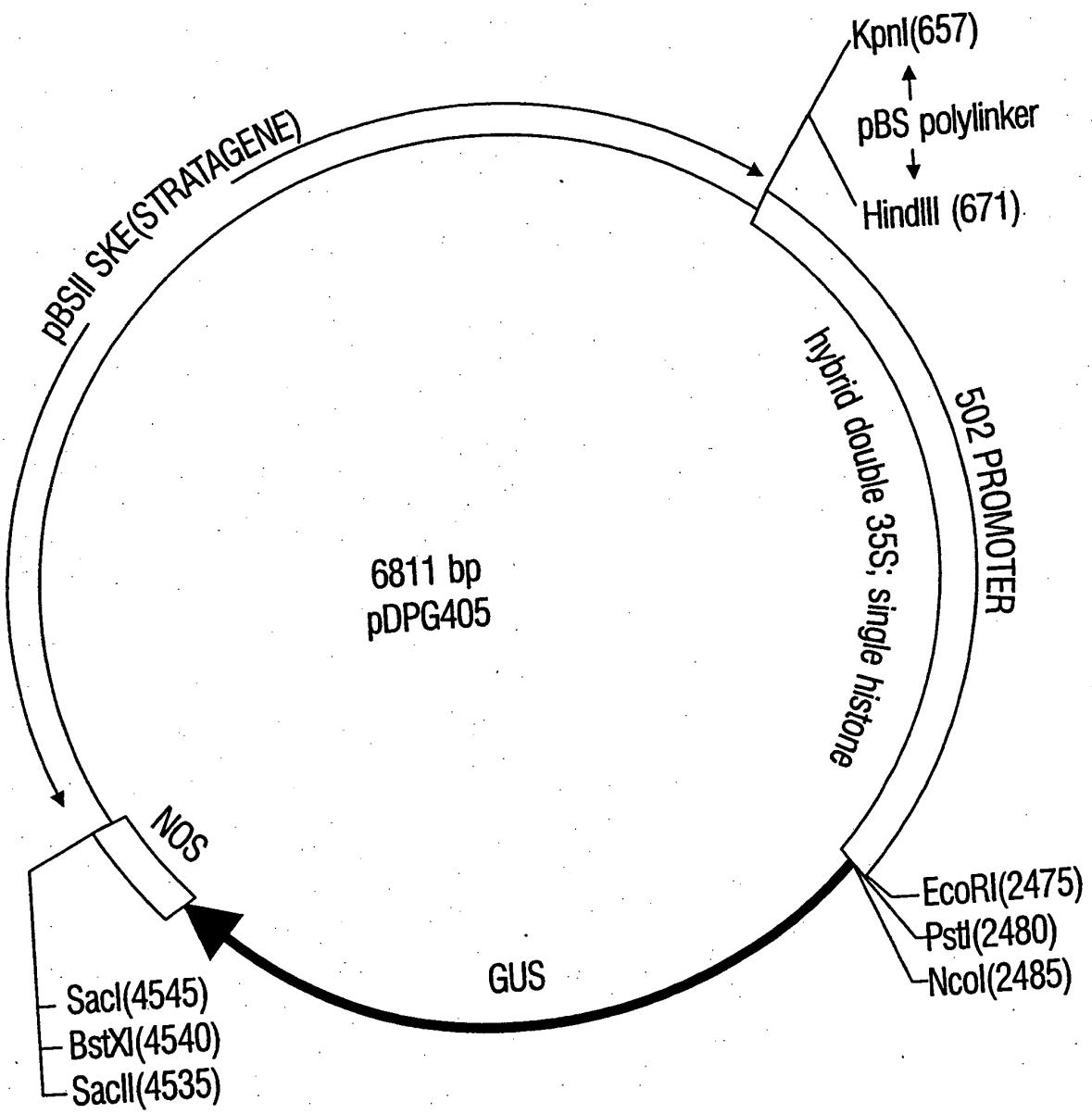


FIG. 15